



# Massachusetts Power Plant Mercury Regulations

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# Massachusetts 310 CMR 7.29 Mercury Standard

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- # Form of the Hg 7.29 standard
  - Output-based and % control efficiency options
- # Level of the standard
  - Phase 1: 85% or 0.0075 lb/GWh by 1/1/2008
  - Phase 2: 95% or 0.0025 lb/GWh by 10/1/2012
- # Affected facilities must comply with 7.29 Hg cap beginning October 1, 2006



# Massachusetts 310 CMR 7.29

## Mercury Standard

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### # Demonstrating compliance with the standard

- Every other quarter stack tests 10/1/2006-12/31/2007
- CEMs required beginning 1/1/2008

### # Averaging time of the standard

- Rolling 12-month basis

# Clean Air Mercury Rule (CAMR)

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- # Clean Air Mercury Rule (CAMR) finalized May 18, 2005
  - Minor revisions June 9, 2006
- # CAMR caps nationwide mercury emissions from new and existing coal-fired power plants and creates a voluntary cap-and-trade program
  - 2010 - 38 tons per year (based on mercury co-benefit reductions from CAIR)
  - 2018 - 15 tons per year



# CAMR Massachusetts Annual EGU Hg Budget

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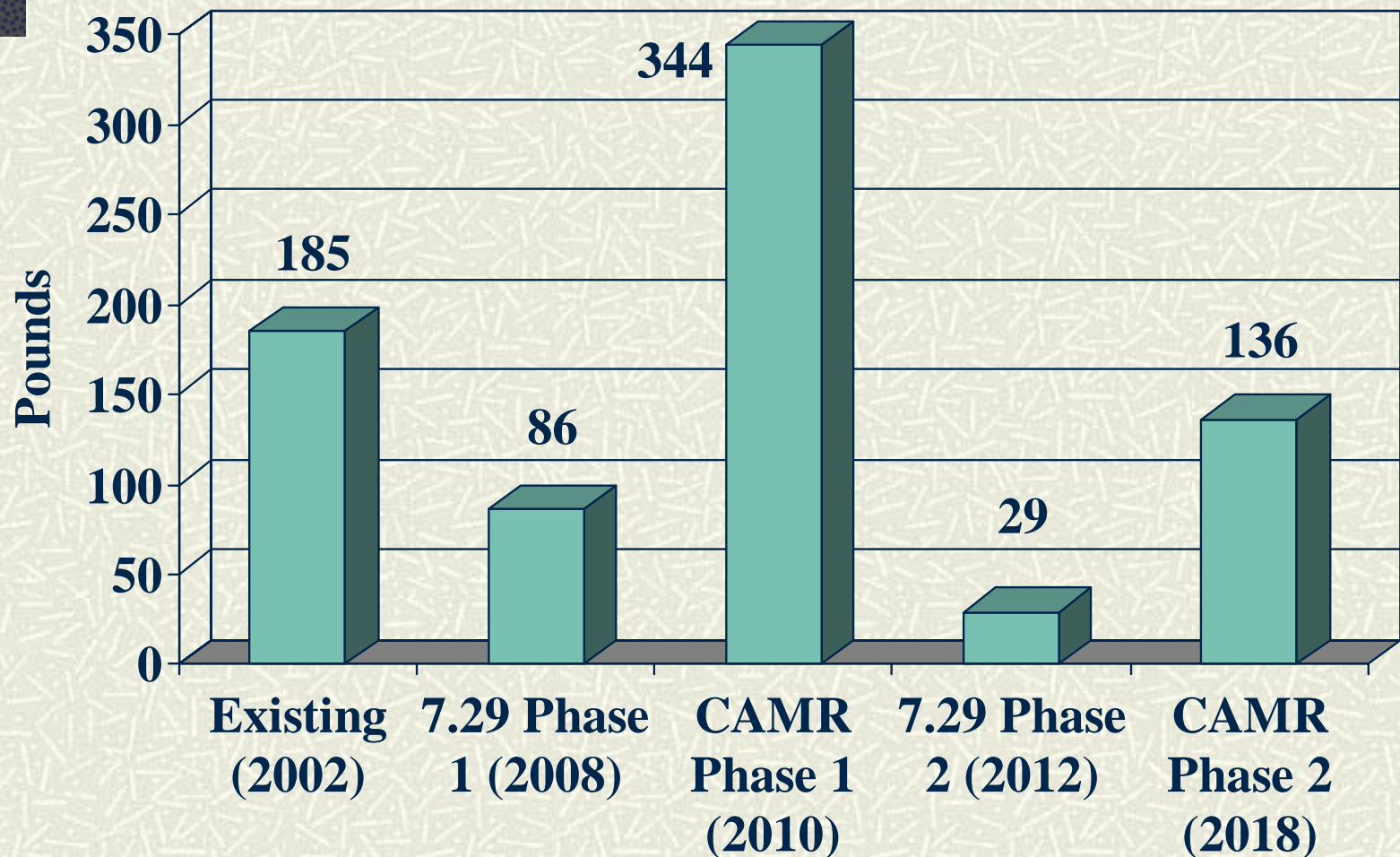
## # 2010-2017

- 0.172 tons
- 344 pounds

## # 2018 & thereafter

- 0.068 tons
- 136 pounds

# Massachusetts Coal-fired EGU Projected Mercury Emissions



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# CAMR: State Plan Requirements

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- # Each State must submit a State Plan by November 17, 2006 that includes
  - fully-adopted State rules for the Hg reduction strategy with compliance dates providing for controls by 2010 and 2018
  - demonstration that State will meet its assigned Statewide Hg emission budget

# CAMR: State Plans & Compliance Options

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- # EGU Hg budgets are binding if a State does not choose to participate in Part 60 Subpart HHHH Hg Budget Trading Program
- # States can choose to implement more stringent Hg emission requirements
- # Each State Plan shall require EGUs to comply with monitoring, recordkeeping, and reporting provisions of Part 75 with regard to Hg mass emissions



# CAMR: State Plans & Compliance Options

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- # Expect to not participate in Part 60 Subpart HHHH Hg Budget Trading Program
- # Demonstration will be submitted indicating 7.29 Hg emissions reduction requirements exceed CAMR Phase 1 and 2 budget obligations

# CAMR: New Plants & Monitoring Requirements

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- # New coal-fired power plants (construction starting on or after January 30, 2004) must also meet New Source Performance Standards in addition to being subject to the caps
- # Mandatory emission monitoring and reporting for existing units beginning on January 1, 2009



# CAMR: Monitoring Options

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- # CAMR permits use of Hg CEMS and sorbent trap monitoring systems for compliance monitoring
- # Expect 7.29 revision package to propose use of either Hg CEMS or sorbent trap monitoring systems following the operational and QA/QC procedures in 40 CFR 75.81(a) and 75.15 Appendices B, K

# CAMR: Monitoring Options

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- # CAMR permits low mass emissions (LME) units (<29 lbs/year) to use periodic Hg emissions testing
- # Expect to maintain current 7.29 which allows stack tests until 12/31/2007, then thru end of 2009 only for units terminating operations by 2010